



Daily Assignment Class : IX (Mathematics)

- The point (2, 3) lies on the graph of the linear equation $3x - (a - 1)y = 2a - 1$. If the same point also lies on the graph of the linear equation $5x + (1 - 2a)y = 3b$, then find the value of b.
- If the circumference of the base of a cone is 44 cm and its height is 25 cm, then find the volume of the cone.
- Express y in terms of x for the equation $4x + 7y = 14$. Check which of the points (0, 2), $(\frac{7}{2}, 0)$ and (2, 1) lie on graph of this equation.
- A cloth having an area of 165 m^2 is shaped into the form of a conical tent of radius 5m.
 - How many students can sit in the tent, if a student on an average occupies $\frac{5}{7} \text{ m}^2$ on the ground?
 - Find the volume of the cone.
- The blood group of 30 students of Class IX are recorded as follows:
A, B, O, O, AB, O, A, O, B, A, O, B, A, O, O, A, AB, O, A, A, O, O, AB, B, A, O, B, A, B, O
Represent this data in the form of a frequency distribution table. Which is the most common and which is the rarest blood group among these students?
- The mean marks (out of 100) of boys and girls in an examination are 70 and 73, respectively. If the mean marks of all the students in that examination is 71, then find the ratio of the number of boys to the number of girls.
- Two dice are thrown simultaneously 500 times. Each time the sum of two numbers appearing on their tops is noted and recorded as given in the following table.

Sum	2	3	4	5	6	7	8	9	10	11	12
Frequency	14	30	42	55	72	75	70	53	46	28	15

If the dice are thrown once more, what is the probability of getting a sum:

- 3?
 - more than 10?
 - less than or equal to 5?
 - between 8 and 12?
- Construct a ΔABC , whose perimeter is 14 cm and sides are in the ratio 2:3:4.



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Information Technology

9. What is a word processor?
10. What is the use of Mail merge feature in a word processor?
11. What does the Quick Access Toolbar contain?
12. What does Find and Replace option of a word processor do?
13. What is Dialog Box launcher? What does it do?
14. What is the use of the Save option present on the File tab?
15. What does the Recent option display?



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